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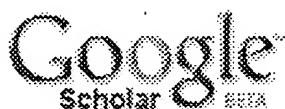
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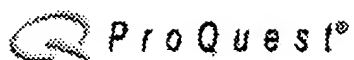
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1 [Three-dimensional alpha shapes](#)



Herbert Edelsbrunner, Ernst P. Mücke

January 1994 **ACM Transactions on Graphics (TOG)**, Volume 13 Issue 1

Publisher: ACM Press

Full text available: [pdf\(8.86 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Frequently, data in scientific computing is in its abstract form a finite point set in space, and it is sometimes useful or required to compute what one might call the "shape" of the set. For that purpose, this article introduces the formal notion of the family of α -shapes of a finite point set in R^3 . Each shape is a well-defined polytope, derived from the Delaunay triangulation of the point set, with a parameter α ; α ; R controlling the desired lev ...

Keywords: Delaunay triangulations, computational graphics, geometric algorithms, point sets, polytopes, robust implementation, scientific computing, scientific visualization, simplicial complexes, simulated perturbation, three-dimensional space

2 [Three-dimensional alpha shapes](#)



Herbert Edelsbrunner, Ernst P. Mücke

December 1992 **Proceedings of the 1992 workshop on Volume visualization VVS '92**

Publisher: ACM Press

Full text available: [pdf\(1.11 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

3 [Efficient algorithms for geometric optimization](#)



Pankaj K. Agarwal, Micha Sharir

December 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 4

Publisher: ACM Press

Full text available: [pdf\(577.74 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We review the recent progress in the design of efficient algorithms for various problems in geometric optimization. We present several techniques used to attack these problems, such as parametric searching, geometric alternatives to parametric searching, prune-and-

search techniques for linear programming and related problems, and LP-type problems and their efficient solution. We then describe a wide range of applications of these and other techniques to numerous problems in geometric optim ...

Keywords: clustering, collision detection, linear programming, matrix searching, parametric searching, proximity problems, prune-and-search, randomized algorithms

4 Level set and PDE methods for computer graphics


 David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available:  [pdf\(17.07 MB\)](#) Additional Information: [full citation](#), [abstract](#)

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

5 The elements of nature: interactive and realistic techniques

 Oliver Deussen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemyslaw Prusinkiewicz, Doug Roble, Jos Stam, Jerry Tessendorf
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press


Full text available:  [pdf\(17.65 MB\)](#) Additional Information: [full citation](#), [abstract](#)

This updated course on simulating natural phenomena will cover the latest research and production techniques for simulating most of the elements of nature. The presenters will provide movie production, interactive simulation, and research perspectives on the difficult task of photorealistic modeling, rendering, and animation of natural phenomena. The course offers a nice balance of the latest interactive graphics hardware-based simulation techniques and the latest physics-based simulation techni ...

6 Collision detection and proximity queries


 Sunil Hadap, Dave Eberle, Pascal Volino, Ming C. Lin, Stephane Redon, Christer Ericson
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available:  [pdf\(11.22 MB\)](#) Additional Information: [full citation](#), [abstract](#)

This course will primarily cover widely accepted and proved methodologies in collision detection. In addition more advanced or recent topics such as continuous collision detection, ADFs, and using graphics hardware will be introduced. When appropriate the methods discussed will be tied to familiar applications such as rigid body and cloth simulation, and will be compared. The course is a good overview for those developing applications in physically based modeling, VR, haptics, and robotics.

7 Real world applications: Three dimensional evolutionary aerodynamic design optimization with CMA-ES

 Martina Hasenjäger, Bernhard Sendhoff, Toyotaka Sonoda, Toshiyuki Arima
June 2005 **Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05**

Publisher: ACM Press

Full text available:  [pdf\(2.37 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we present the application of evolutionary optimization methods to a demanding, industrially relevant engineering domain, the three-dimensional optimization of gas turbine stator blades. This optimization problem is high-dimensional search and computationally very expensive. We show that, despite of its difficulty, the problem is feasible. Our approach not only successfully optimizes the aerodynamic design but also yields interesting results from an engineering point of view.

Keywords: covariance matrix adaptation, design optimization, evolutionary strategies, real world application

8 Facial modeling and animation



Jörg Haber, Demetri Terzopoulos

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available:  [pdf\(18.15 MB\)](#) Additional Information: [full citation](#), [abstract](#)

In this course we present an overview of the concepts and current techniques in facial modeling and animation. We introduce this research area by its history and applications. As a necessary prerequisite for facial modeling, data acquisition is discussed in detail. We describe basic concepts of facial animation and present different approaches including parametric models, performance-, physics-, and learning-based methods. State-of-the-art techniques such as muscle-based facial animation, mass-s ...

9 View planning for automated three-dimensional object reconstruction and inspection



William R. Scott, Gerhard Roth, Jean-François Rivest

March 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(517.25 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Laser scanning range sensors are widely used for high-precision, high-density three-dimensional (3D) reconstruction and inspection of the surface of physical objects. The process typically involves planning a set of views, physically altering the relative object-sensor pose, taking scans, registering the acquired geometric data in a common coordinate frame of reference, and finally integrating range images into a nonredundant model. Efficiencies could be achieved by automating or semiautomating ...

Keywords: View planning, object inspection, object reconstruction, range images


10 Gross motion planning—a survey



Yong K. Hwang, Narendra Ahuja

September 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(6.40 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Motion planning is one of the most important areas of robotics research. The complexity of the motion-planning problem has hindered the development of practical algorithms. This paper surveys the work on gross-motion planning, including motion planners for point robots, rigid robots, and manipulators in stationary, time-varying, constrained, and movable-object environments. The general issues in motion planning are explained. Recent approaches and their performances are briefly described, a ...

Keywords: collision detection, computational geometry, implementation, motion planning, obstacle avoidance, path planning, spatial representation


11 Projectors: advanced graphics and vision techniques



Ramesh Raskar

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available:  pdf(6.53 MB) Additional Information: [full citation](#)

12 Evolutionary strategies and evolutionary programming: Morphing methods in evolutionary design optimization



Michael Nashvili, Markus Olhofer, Bernhard Sendhoff

June 2005 **Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05**

Publisher: ACM Press

Full text available:  pdf(446.38 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Design optimization is a well established application field of evolutionary computation. However, standard recombination operators acting on the genotypic representation of the design or shape are often too disruptive to be useful during optimization. In this work, we will analyze whether morphing methods between two shapes can be used as recombination operators acting on the phenotype space, thus directly on the shape or design. We introduce three different morphing methods and employ them as r ...

Keywords: design optimization, evolution strategies, morphing methods, phenotypic recombination


13 Optimization: Optimized color gamuts for tiled displays



Marshall Bern, David Eppstein

June 2003 **Proceedings of the nineteenth annual symposium on Computational geometry**

Publisher: ACM Press

Full text available:  pdf(155.36 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We consider the problem of finding a large color space that can be generated by all units in multi-projector tiled display systems. Viewing the problem geometrically as one of finding a large parallelepiped within the intersection of multiple parallelepipeds, and using colorimetric principles to define a volume-based objective function for comparing feasible solutions, we develop an algorithm for finding the optimal gamut in time $O(n^3)$, where n denotes the number of proj ...

Keywords: additive color, color gamuts, gamut mapping, geometric optimization, high-resolution display systems, quasiconvex programming, tiled displays

14 Skeleton-based modeling operations on solids




Duane W. Storti, George M. Turkiyyah, Mark A. Ganter, Chek T. Lim, Derek M. Stal

May 1997 **Proceedings of the fourth ACM symposium on Solid modeling and applications**

Publisher: ACM Press

Full text available: Additional Information:

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15 [Creating models of truss structures with optimization](#)



Jeffrey Smith, Jessica Hodgins, Irving Oppenheim, Andrew Witkin

July 2002 **ACM Transactions on Graphics (TOG) , Proceedings of the 29th annual conference on Computer graphics and interactive techniques SIGGRAPH '02**, Volume 21 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(2.99 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a method for designing truss structures, a common and complex category of buildings, using non-linear optimization. Truss structures are ubiquitous in the industrialized world, appearing as bridges, towers, roof supports and building exoskeletons, yet are complex enough that modeling them by hand is time consuming and tedious. We represent trusses as a set of rigid bars connected by pin joints, which may change location during optimization. By including the location of the joints as w ...

Keywords: constrained optimization, nonlinear optimization, physically based modeling, truss structures


16 [Computational strategies for object recognition](#)



Paul Suetens, Pascal Fua, Andrew J. Hanson

March 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(6.37 MB\)](#)

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This article reviews the available methods for automated identification of objects in digital images. The techniques are classified into groups according to the nature of the computational strategy used. Four classes are proposed: (1) the simplest strategies, which work on data appropriate for feature vector classification, (2) methods that match models to symbolic data structures for situations involving reliable data and complex models, (3) approaches that fit models to the photometry and ...

Keywords: image understanding, model-based vision, object recognition


17 [As-rigid-as-possible shape interpolation](#)



Marc Alexa, Daniel Cohen-Or, David Levin

July 2000 **Proceedings of the 27th annual conference on Computer graphics and interactive techniques**

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available:  [pdf\(1.81 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present an object-space morphing technique that blends the interiors of given two- or three-dimensional shapes rather than their boundaries. The morph is rigid in the sense that local volumes are least-distorting as they vary from their source to target configurations. Given a boundary vertex correspondence, the source and target shapes are decomposed into isomorphic simplicial complexes. For the simplicial complexes, we find a closed-form expression allocating the paths of both boundary ...

Keywords: compatible triangulation, shape blending, vertex path problem

18 On defining application-specific high-level array operations by means of shape-invariant programming facilities



Sven-Bodo Scholz

July 1998 **ACM SIGAPL APL Quote Quad , Proceedings of the APL98 conference on Array processing language APL '98**, Volume 29 Issue 3

Publisher: ACM Press

Full text available: [pdf\(583.03 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Most of the existing high-level array-processing languages support a fixed set of pre-defined array *operations* and a few higher-order functions for constructing new array operations from existing ones. In this paper, we discuss a more general approach made feasible by SAC (for Single Assignment C), a functional variant of C.SAC provides a meta-level language construct called WITH-loop which may be considered a sophisticated variant of the FORALL-loops ...

Keywords: compilation, high-level array operations, meta-level programming, performance comparison, shape-invariant programming

19 14.9 TFLOPS three-dimensional fluid simulation for fusion science with HPF on the Earth Simulator

Hitoshi Sakagami, Hitoshi Murai, Yoshiki Seo, Mitsuo Yokokawa

November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing**

Publisher: IEEE Computer Society Press

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We succeeded in getting 14.9 TFLOPS performance when running a plasma simulation code IMPACT-3D parallelized with High Performance Fortran on 512 nodes of the Earth Simulator. The theoretical peak performance of the 512 nodes is 32 TFLOPS, which means 45% of the peak performance was obtained with HPF. IMPACT-3D is an implosion analysis code using TVD scheme, which performs three-dimensional compressible and inviscid Eulerian fluid computation with the explicit 5-point stencil scheme for spatial ...

20 Session 1A: Combinatorial optimization problems in self-assembly



Len Adleman, Qi Cheng, Ashish Goel, Ming-Deh Huang, David Kempe, Pablo Moisset de Espanés, Paul Wilhelm Karl Rothmund

May 2002 **Proceedings of the thirty-fourth annual ACM symposium on Theory of computing**

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Self-assembly is the ubiquitous process by which simple objects autonomously assemble into intricate complexes. It has been suggested that intricate self-assembly processes will ultimately be used in circuit fabrication, nano-robotics, DNA computation, and amorphous computing. In this paper, we study two combinatorial optimization problems related to efficient self-assembly of shapes in the Tile Assembly Model of self-assembly proposed by Rothmund and Winfree [18]. The first is the Minimum Tile ...

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2	BRS	L19	762	(attributes same redundant) and (attribute\$2 same redund\$6)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/22 13:54
3	BRS	L20	185	(attributes same redundant) and (attribute\$2 same redund\$6) and (attributes same delet\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/22 13:55
4	BRS	L21	128	(attributes same redundant) and (attribute\$2 same redund\$6) and (attributes same delet\$5) and (attribute\$2 same list\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/22 13:57
5	BRS	L22	60	(attributes same redundant) and (attribute\$2 same redund\$6) and (attributes same delet\$5) and (attribute\$2 same list\$3) and optimiz\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/22 13:58

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6	BRS	L23	7	(attributes same redundant) and (attribute\$2 same redund\$6) and (attributes same delet\$5) and (attribute\$2 same list\$3) and (optimiz\$4 same model\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/22 15:06
7	BRS	L24	0	(attributes same redundant) and (attribute\$2 same redund\$6) and (attributes same delet\$5) and (attribute\$2 same list\$3) and (optimiz\$4 same model\$3) and (3D)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/22 14:07
8	BRS	L25	837	(attributes same (three-dimensional) same model\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/22 14:09
9	BRS	L26	89	(attributes same (three-dimensional) same model\$3) and (attributes same list\$3) and (attributes same delet\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/22 14:10
10	BRS	L27	20	(attributes same (three-dimensional) same model\$3) and (attributes same list\$3) and (attributes same delet\$3) and (attribute same (chang\$3 or amend\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/22 14:12

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11	BRS	L28	17	(attributes same (three-dimensional) same model\$3) and (attributes same list\$3) and (attributes same delet\$3) and (attribute same (chang\$3 or amend\$3)) and (attribute\$2 same information)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/22 14:14
12	BRS	L29	4	(attributes same (three-dimensional) same model\$3) and (attributes same list\$3) and (attributes same delet\$3) and (attribute same (chang\$3 or amend\$3)) and (attribute\$2 same information) and optim\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/22 14:22
13	BRS	L30	1	(attributes same (three-dimensional) same model\$3) and (attributes same list\$3) and (attributes same delet\$3) and (attribute same (chang\$3 or amend\$3)) and (attribute\$2 same information) and optim\$4 and redund\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/22 14:27
14	BRS	L33	1	(detection adj unit) and (redundant adj attributes)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/22 14:27
15	BRS	L34	38	(redundant adj attributes)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/22 14:28

	Type	L #	Hits	Search Text	DBs	Time Stamp
16	BRS	L35	11	(redundant adj attributes) and (three adj dimensional)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/22 14:28
17	BRS	L36	6	(redundant adj attributes) and (three adj dimensional) and list and delete and (amend or chang\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/22 14:30
18	BRS	L37	48	(optim\$3 and attributes).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/22 14:31
19	BRS	L38	258	(attribute same redundant) and (attribute same plural\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/22 14:32
20	BRS	L39	117	(attribute same redundant) and (attribute same plural\$3) and (attribute same list)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/22 14:32

	Type	L #	Hits	Search Text	DBs	Time Stamp
21	BRS	L40	61	(attribute same redundant) and (attribute same plural\$3) and (attribute same list) and (attribute same delet\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/22 14:35
22	BRS	L41	20	(attribute same redundant) and (attribute same plural\$3) and (attribute same list) and (attribute same delet\$3) and (compare same attribute)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/22 14:54
23	BRS	L42	82	(attribute same redundant) and (attribute same shape\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/22 14:54
24	BRS	L43	14	(attribute same redundant) and (attribute same shape\$2) and ((three adj dimension\$2) same attribute\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/22 14:56
25	BRS	L44	2380	345/419.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/22 15:10
26	BRS	L45	413	345/419.ccls. and attributes	USPAT	2006/04/22 15:11

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27	BRS	L46	661	345/419.ccls. and attributes	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/22 15:12
28	BRS	L47	75	345/419.ccls. and attributes and redundant	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/22 15:12
29	BRS	L48	8	345/419.ccls. and (attributes same redundant)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/22 15:15
30	BRS	L49	0	382/190.ccls. and (attributes same redundant)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/22 15:16
31	BRS	L50	1206	382/190.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/22 15:16